

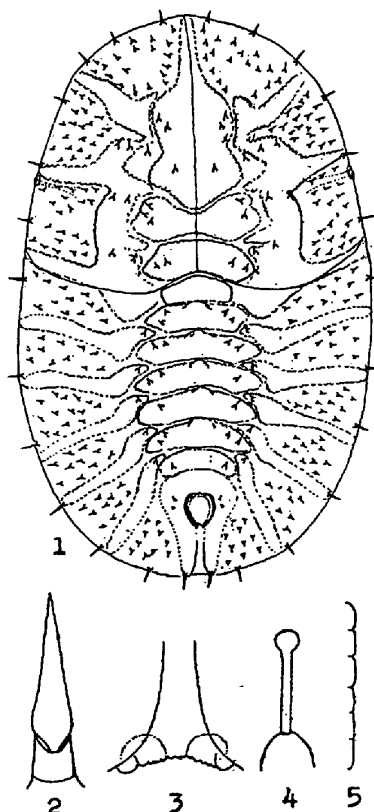
NOTES ON THE ALEYRODIDAE OF JAPAN (HOMOPTERA), I.

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Dialeurodes (Rhachisphora) styraci n. sp.

(Pupa case) In specimens preserved in alcohol, dark brown, with indistinct paler patches along the margin; abdomen longitudinally pale at the middle of dorsum in a specimen. Elliptic, about 1.5 times as long as wide, not constricted across the thoracic tracheal pores, slightly notched at the hind end, chitinized; rhachis eminent, forming ridges, reaching the margin. Mid-thoracic suture very thin, reaching the margin; transverse suture between the thorax and abdomen very thin, nearly reaching the margin, a little extending forwards on the lateral part; posterior 2 thoracic and all abdominal segments distinct. Dorsum with numerous small short rounded granules densely scattered, which are chitinized, absent on the paler areas along the margin and are obsolete at the middle of each of the meso- and metathoracic and abdominal segments; many very short capitate setae present on the dorsum, which are scarcely found on the lateral ridges, each arising



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Pupa case.

1. Dorsal view. 2. Submarginal spine.
3. Distal end of caudal furrow.
4. Dorsal capitate seta. 5. Margin.

from a small tubercle, the tubercles much larger than the dorsal granules; 26 short lanceolate spines arranged in a single row along the whole margin, which are straight, sharply pointed, subequal in size and reaching beyond the margin. Margin not more chitinized, with no distinct teeth, the usual marginal setae not discernible. Thoracic tracheal folds distinct, narrow, slightly expanded basally, without markings; the pores rather large, completely closed, situated on the margin, wanting teeth, directed laterally, with its margin a little elevated. Caudal furrow rather wide, widened on the posterior part, not well defined laterally on the basal part, rather short, wanting distinct markings, with no pore at the hind end. Vasiform orifice large, subcordate, longer than wide, a little shorter than the caudal furrow, distinctly notched at the hind end, wanting teeth, with the lateral margins thickened, and the anterior margin not well defined; a pair of small pointed teeth closely placed present in the posterior notch. Operculum subcordate, longer than wide, occupying most of the orifice. Lingula setose, widely rounded on the hind end, slightly exposed.

Length of pupa case—about 1.5 mm., submarginal spine—about 0.038 mm., vasiform orifice including margin—about 0.079 mm., caudal furrow—about 0.102 mm.

Host.—*Styrax* sp.

Habitats.—Morioka, Shiraishi near Sendai.

Collected by Prof. K. MONZEN on November, 9, 1931 and January 9, 1932 on the branch of the host.

In the subgenus *Rhachisphora* QUAINANCE et BAKER, 13 species have been described from Fiji, Malaya, Ceylon, India and Formosa, and among them *D. (R.) machili* TAKAH. and *D. (R.) maesae* TAKAH. are most related to the present species. Differs from those species in the pupa case more chitinized and with numerous granules, the rhachis more eminent and reaching the margin, and the submarginal spines much longer, as well as in other characters.

I express my thanks to Prof. MONZEN for his kindness in sending me the specimens. The types are in the collection of the Department of Agriculture, Government Research Institute, Formosa.

(昭和9年11月12日受領)